

Appl. No.: 10/089,635
Amdt. dated 02/17/2005
Reply to Office action of December 21, 2004

Amendments to the Claims:

1.-24. (canceled)

25. (amended) A method of producing a dielectric multilayer mirror coating comprising the steps of
producing at least two dielectric layers of predetermined initial thicknesses,
arranging the layers one above the other to form a stack of layers,
arranging the stack of layers between two base layers to form a sandwich block,
reducing the thickness of the sandwich block, by
~~deforming the sandwich block~~ while maintaining the thickness ratio or thickness ratios of the dielectric layers relative to one another,
~~wherein the deforming step comprises a series of partial deformation steps, and~~
wherein at least one of the base layers is formed of a plurality of individual layers which are ~~sequentially built up~~ by sequentially arranging the individual layers in an overlying relationship, and
wherein the step of reducing the thickness of the sandwich block includes partially deforming the individual layers which form the at least one base layer step by step each time after one of the individual layers is arranged to overlie a preceding layer. ~~between the partial deformation steps.~~

26. (currently amended) The method of Claim 25 wherein the initial thicknesses ~~thickness~~ of the at least two dielectric layers are different.

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27. (previously presented) The method of Claim 25 wherein at least one dielectric layer of the stack comprises glass or plastic.

28. (previously presented) The method of Claim 25 wherein the at least two dielectric layers have different indices of refraction.

29. (previously presented) The method of Claim 25 wherein the at least two dielectric layers form a double layer.

30. (previously presented) The method of Claim 29 wherein at least two double layers are stacked.

31. (previously presented) The method of Claim 30 wherein the thickness varies from double layer to double layer.

32. (previously presented) The method of Claim 25 wherein the step of arranging the layers one above the other includes a stacking and/or roll-up of the layers.

33. (previously presented) The method of Claim 25 wherein the two base layers comprise glass.

34. (previously presented) The method of Claim 25 wherein the dielectric layers are joined by fusion after arranging the stack of dielectric layers between two base layers.

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35. (previously presented) The method of Claim 34 wherein the step of joining the layers by fusion occurs under vacuum.

36. (previously presented) The method of Claim 25 wherein the step of deforming the sandwich block includes a pressing or rolling or drawing operation.

37. (previously presented) The method of Claim 36 wherein the step of deforming the sandwich block includes the application of heat.

38. (previously presented) The method of Claim 25 comprising the further subsequent step of forming the resulting block into a tube or curved configuration.

39. (previously presented) The method of Claim 38 wherein the step of forming the resulting block into a tube or curved configuration includes positioning the resulting block adjacent an inner surface of the tube or curved configuration.

40. (previously presented) The method of Claim 25 comprising the further step of applying the dielectric multilayer mirror coating on a base body.

41. (previously presented) The method of Claim 25 wherein the individual layers of the at least one of the base layers are fused together during the partial deformation steps.